SHURE
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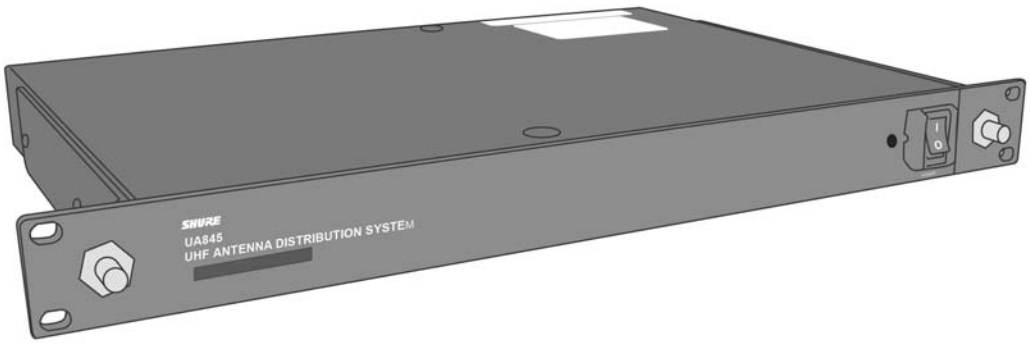
MODEL UA845
USER GUIDE



ANTENNA DISTRIBUTION SYSTEM
USER'S GUIDE

RÉPARTITEUR D'ANTENNE
LE GUIDE DE L'UTILISATEUR

ANTENNENVERTEILERSYSTEM
BEDIENUNGSANLEITUNG

SISTEMA DE DISTRIBUCIÓN DE ANTENAS
GUÍA DEL USUARIO

SISTEMA DI DISTRIBUZIONE AD ANTENNE
GUIDA DELL'UTENTE

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POWERING ON/POWERING OFF THE UA845

Last powered on

To avoid damaging internal components, the UA845 amplifier should be the **last** component in your system to be powered **on**.

First powered off

To avoid damaging internal components, the UA845 amplifier should be the **first** component in your system to be powered **off**.

CONNECTING ANTENNA CABLES

Accidentally connecting the center cable pin (power supply) to the cable housing (ground) may cause internal component damage. **Use caution when installing cables.**

MISE SOUS TENSION/MISE HORS TENSION DU UA845

Pour éviter d'endommager les composants internes, l'amplificateur UA845 doit être le **dernier** composant du système à être mis **sous tension**.
Pour éviter d'endommager les composants internes, l'amplificateur UA845 doit être le **premier** composant du système à être mis **hors tension**.

RACCORDEMENT DES CÂBLES D'ANTENNE

Le raccordement accidentel de la broche centrale du câble (alimentation) à la gaine du câble (masse) peut endommager les composants internes. **Installer les câbles avec précaution.**

ENCENDIDO Y APAGADO DEL UA845

Para evitar dañar los componentes internos, el amplificador UA845 debe ser el **último** componente que **se enciende** en su sistema.
Para evitar dañar los componentes internos, el amplificador UA845 debe ser el **primer** componente que **se apaga** en su sistema.

CONEXION DE CABLES DE ANTENA

La conexión accidental de la clavija central del cable (fuente de alimentación) a la caja del cable (tierra) puede causar daño a los componentes internos. **Tenga cuidado al instalar los cables.**

AN-/AUSSCHALTEN DES UA845

Der Verstärker UA845 sollte als **letzte** Komponente Ihres System **angeschaltet** werden, um die Beschädigung interner Komponenten zu vermeiden.
Der Verstärker UA845 sollte als **erste** Komponente Ihres System **ausgeschaltet** werden, um die Beschädigung interner Komponenten zu vermeiden.

ANSCHLIESSEN DER ANTENNENKABEL

Wenn der mittlere Kabelstift (Stromversorgung) versehentlich mit dem Kabelgehäuse (Masse) in Kontakt kommt, kann dies zur Beschädigung interner Komponenten führen. **Beim Anschließen der Kabel vorsichtig vorgehen.**

ACCENSIONE/SPEGNIMENTO DEL MODELLO UA845

Per prevenire danni ai componenti interni, l'amplificatore UA845 va **acceso** per **ultimo**.
Per prevenire danni ai componenti interni, l'amplificatore UA845 va **spento** per **primo**.

COLLEGAMENTO DEI CAVI DELL'ANTENNA

Il collegamento accidentale del piedino del cavo centrale (alimentazione) all'alloggiamento del cavo (massa) può provocare danni ai componenti interni. **Fate attenzione durante l'installazione dei cavi.**

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! IMPORTANT SAFETY INSTRUCTIONS !

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. DO NOT defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12. USE only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose the apparatus to dripping and splashing. DO NOT put objects filled with liquids, such as vases, on the apparatus.
16. The MAINS plug or an appliance coupler shall remain readily operable.
17. The airborne noise of the apparatus does not exceed 70dB (A).
18. Apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
19. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
20. Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.

This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

WARNING: Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel. The safety certifications do not apply when the operating voltage is changed from the factory setting.

! CONSIGNES DE SÉCURITÉ IMPORTANTES !

1. LIRE ces consignes.
2. CONSERVER ces consignes.
3. OBSERVER tous les avertissements.
4. SUIVRE toutes les consignes.
5. NE PAS utiliser cet appareil à proximité de l'eau.
6. NETTOYER UNIQUEMENT avec un chiffon sec.
7. NE PAS obstruer les ouvertures de ventilation. Installer en respectant les consignes du fabricant.
8. Ne pas installer à proximité d'une source de chaleur telle qu'un radiateur, une bouche de chaleur, un poêle ou d'autres appareils (dont les amplificateurs) produisant de la chaleur.
9. NE PAS détériorer la sécurité de la fiche polarisée ou de la fiche de terre. Une fiche polarisée comporte deux lames dont l'une est plus large que l'autre. Une fiche de terre comporte deux lames et une troisième broche de mise à la terre. La lame la plus large ou la troisième broche assure la sécurité de l'utilisateur. Si la fiche fournie ne s'adapte pas à la prise électrique, demander à un électricien de remplacer la prise hors normes.
10. PROTÉGER le cordon d'alimentation afin que personne ne marche dessus et que rien ne le pince, en particulier au niveau des fiches, des prises de courant et du point de sortie de l'appareil.
11. UTILISER UNIQUEMENT les accessoires spécifiés par le fabricant.
12. UTILISER uniquement avec un chariot, un pied, un trépied, un support ou une table spécifié par le fabricant ou vendu avec l'appareil. Si un chariot est utilisé, déplacer l'ensemble chariot-appareil avec précaution afin de ne pas le renverser, ce qui pourrait entraîner des blessures.
13. DÉBRANCHER l'appareil pendant les orages ou quand il ne sera pas utilisé pendant longtemps.
14. CONFIER toute réparation à du personnel qualifié. Des réparations sont nécessaires si l'appareil est endommagé de quelque façon que ce soit, comme par exemple : cordon ou prise d'alimentation endommagé, liquide renversé ou objet tombé à l'intérieur de l'appareil, exposition de l'appareil à la pluie ou à l'humidité, appareil qui ne marche pas normalement ou que l'on a fait tomber.
15. NE PAS exposer cet appareil aux égouttures et aux éclaboussements. NE PAS poser des objets contenant de l'eau, comme des vases, sur l'appareil.
16. La prise SECTEUR ou un adaptateur d'alimentation doit toujours rester prêt(e) à être utilisé(e).
17. Le bruit aérien de l'appareil ne dépasse pas 70 dB (A).
18. L'appareil de construction de CLASSE I doit être raccordé à une prise SECTEUR dotée d'une protection par mise à la terre.
19. Pour réduire les risques d'incendie ou de choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité.
20. Ne pas essayer de modifier ce produit. Une telle opération est susceptible d'entraîner des blessures ou la défaillance du produit.

Ce symbole indique la présence d'une tension dangereuse dans l'appareil constituant un risque de choc électrique.

Ce symbole indique que la documentation fournie avec l'appareil contient des instructions d'utilisation et d'entretien importantes.

AVERTISSEMENT : Les tensions à l'intérieur de cet équipement peuvent être mortelles. Aucune pièce interne réparable par l'utilisateur. Confier toute réparation à du personnel qualifié. Les certifications de sécurité sont invalidées lorsque le réglage de tension d'usine est changé.

! WICHTIGE SICHERHEITSHINWEISE !

1. Diese Hinweise LESEN.
2. Diese Hinweise AUFHEBEN.
3. Alle Warnhinweise BEACHTEN.
4. Alle Anweisungen BEFOLGEN.
5. Dieses Gerät NICHT in der Nähe von Wasser verwenden.
6. NUR mit einem sauberen Tuch REINIGEN.
7. KEINE Lüftungsöffnungen verdecken. Gemäß den Anweisungen des Herstellers einbauen.
8. Nicht in der Nähe von Wärmequellen, wie Heizkörpern, Raumheizungen, Herden oder anderen Geräten (einschließlich Verstärkern) installieren, die Wärme erzeugen.
9. Die Schutzfunktion des Schukosteckers NICHT umgehen. Bei Steckern für die USA gibt es polarisierte Stecker, bei denen ein Leiter breiter als der andere ist; US-Stecker mit Erdung verfügen über einen dritten Schutzleiter. Bei diesen Steckerausführungen dient der breitere Leiter bzw. der Schutzleiter Ihrer Sicherheit. Wenn der mitgelieferte Stecker nicht in die Steckdose passt, einen Elektriker mit dem Austauschen der veralteten Steckdose beauftragen.
10. VERHINDERN, dass das Netzkabel gequetscht oder darauf getreten wird, insbesondere im Bereich der Stecker, Netzsteckdosen und an der Austrittsstelle vom Gerät.
11. NUR das vom Hersteller angegebene Zubehör und entsprechende Zusatzgeräte verwenden.
12. NUR in Verbindung mit einem vom Hersteller angegebenen oder mit dem Gerät verkauften Transportwagen, Stand, Stativ, Träger oder Tisch verwenden. Wenn ein Transportwagen verwendet wird, beim Verschieben der Transportwagen-Geräte Einheit vorsichtig vorgehen, um Verletzungen durch Umkippen zu verhüten.
13. Das Netzkabel dieses Geräts während Gewittern oder bei längeren Stillstandszeiten aus der Steckdose ABZIEHEN.
14. Alle Reparatur- und Wartungsarbeiten von qualifiziertem Kundendienstpersonal DURCHFÜHREN LASSEN. Kundendienst ist erforderlich, wenn das Gerät auf irgendwelche Weise beschädigt wurde, z.B. wenn das Netzkabel oder der Netzstecker beschädigt wurden, wenn Flüssigkeiten in das Gerät verschüttet wurden oder Fremdkörper hineinfielen, wenn das Gerät Regen oder Feuchtigkeit ausgesetzt war, nicht normal funktioniert oder fallen gelassen wurde.
15. Dieses Gerät vor Tropf- und Spritzwasser SCHÜTZEN. KEINE mit Wasser gefüllten Gegenstände wie zum Beispiel Vasen auf das Gerät STELLEN.
16. Der Netzstecker oder ein Gerätekuppler müssen leicht betriebsbereit bleiben.
17. Der Luftschall des Geräts überschreitet 70 dB (A) nicht.
18. Das Gerät mit Bauweise der KLASSE I muss mit einem Schukostecker mit Schutzleiter in eine Netzsteckdose mit Schutzleiter eingesteckt werden.
19. Dieses Gerät darf nicht Regen oder Feuchtigkeit ausgesetzt werden, um das Risiko von Bränden oder Stromschlägen zu verringern.
20. Nicht versuchen, dieses Produkt zu modifizieren. Ansonsten könnte es zu Verletzungen und/oder zum Produktausfall kommen.

Dieses Symbol zeigt an, dass das diesem Gerät beiliegende Handbuch wichtige Betriebs- und Wartungsanweisungen enthält.

Dieses Symbol zeigt an, dass gefährliche Spannungswerte, die ein Stromschlagrisiko darstellen, innerhalb dieses Geräts auftreten

ACHTUNG: Die in diesem Gerät auftretenden Spannungen sind lebensgefährlich. Das Gerät enthält keine Teile, die vom Benutzer gewartet werden können. Alle Reparatur- und Wartungsarbeiten von qualifiziertem Kundendienstpersonal durchführen lassen. Die Sicherheitszulassungen gelten nicht mehr, wenn die Werkseinstellung der Betriebsspannung geändert wird.

! INSTRUCCIONES IMPORTANTES DE SEGURIDAD !

1. LEA estas instrucciones.
2. CONSERVE estas instrucciones.
3. PRESTE ATENCION a todas las advertencias.
4. SIGA todas las instrucciones.
5. NO utilice este aparato cerca del agua.
6. LIMPIESE UNICAMENTE con un trapo seco.
7. NO obstruya ninguna de las aberturas de ventilación. Instálese según lo indicado en las instrucciones del fabricante.
8. No instale el aparato cerca de fuentes de calor tales como radiadores, registros de calefacción, estufas u otros aparatos (incluyendo amplificadores) que produzcan calor.
9. NO anule la función de seguridad del enchufe polarizado o con clavija de puesta a tierra. Un enchufe polarizado tiene dos patas, una más ancha que la otra. Un enchufe con puesta a tierra tiene dos patas y una tercera clavija con puesta a tierra. La pata más ancha o la tercera clavija se proporciona para su seguridad. Si el tomacorriente no es del tipo apropiado para el enchufe, consulte a un electricista para que sustituya el tomacorriente de estilo anticuado.
10. PROTEJA el cable eléctrico para evitar que personas lo pisen o estrujen, particularmente en sus enchufes, en los tomacorrientes y en el punto en el cual sale del aparato.
11. UTILICE únicamente los accesorios especificados por el fabricante.
12. UTILICESE únicamente con un carro, pedestal, trípode, escuadra o mesa del tipo especificado por el fabricante o vendido con el aparato. Si se usa un carro, el mismo debe moverse con sumo cuidado para evitar que se vuelque con el aparato.
13. DESENCHUFE el aparato durante las tormentas eléctricas, o si no va a ser utilizado por un lapso prolongado.
14. TODA reparación debe ser llevada a cabo por técnicos calificados. El aparato requiere reparación si ha sufrido cualquier tipo de daño, incluyendo los daños al cordón o enchufe eléctrico, si se derrama líquido sobre el aparato o si caen objetos en su interior, si ha sido expuesto a la lluvia o la humedad, si no funciona de modo normal, o si se ha caído.
15. NO exponga este aparato a chorros o salpicaduras de líquidos. NO coloque objetos llenos con líquido, tales como floreros, sobre el aparato.
16. El enchufe de alimentación principal o acoplador de aparato electrodoméstico deberá permanecer en condiciones de funcionamiento.
17. El nivel de ruido transmitido por el aire del aparato no excede de 70 dB (A).
18. Los aparatos de fabricación CLASE I deberán conectarse a un tomacorriente DE ALIMENTACIÓN con clavija de puesta a tierra protectora.
19. Para reducir el riesgo de causar un incendio o sacudidas eléctricas, no exponga este aparato a la lluvia ni a humedad.
20. No intente modificar este producto. Hacerlo podría causar lesiones personales y/o la falla del producto.

Este símbolo indica que la unidad contiene niveles de voltaje peligrosos que representan un riesgo de choques eléctricos.

Este símbolo indica que la literatura que acompaña a esta unidad contiene instrucciones importantes de funcionamiento y mantenimiento.

ADVERTENCIA: Los voltajes presentes en este equipo representan un riesgo para la vida. No contiene componentes reparables por el usuario. Toda reparación debe ser llevada a cabo por técnicos calificados. Las certificaciones de seguridad no tienen vigencia cuando el voltaje de funcionamiento de la unidad es cambiado a un valor distinto al ajustado en fábrica.

! ISTRUZIONI IMPORTANTI PER LA SICUREZZA !

1. EGGETE queste istruzioni.
2. CONSERVATE queste istruzioni.
3. OSSERVATE tutte le avvertenze.
4. SEGUITE tutte le istruzioni.
5. NON usate questo apparecchio vicino all'acqua.
6. PULITE l'apparecchio SOLO con un panno asciutto.
7. NON ostruite alcuna apertura per l'aria di raffreddamento. Installate l'apparecchio seguendo le istruzioni del costruttore.
8. NON installate l'apparecchio accanto a fonti di calore quali radiatori, aperture per l'efflusso di aria calda, forni o altri apparecchi (amplificatori inclusi) che generino calore.
9. NON modificate la spina polarizzata o con spinotto di protezione. Una spina polarizzata è dotata di due lame, una più ampia dell'altra. Una spina con spinotto è dotata di due lame e di un terzo polo di messa a terra. La lama più ampia ed il terzo polo hanno lo scopo di tutelare la vostra incolumità. Se la spina in dotazione non si adatta alla presa di corrente, rivolgetevi ad un elettricista per far eseguire le modifiche necessarie.
10. EVITATE di calpestare il cavo di alimentazione o di comprimerlo, specie in corrispondenza di spine, prese di corrente e punto di uscita dall'apparecchio.
11. USATE ESCLUSIVAMENTE i dispositivi di collegamento e gli accessori specificati dal costruttore.
12. USATE l'apparecchio solo con carrelli, sostegni, treppiedi, staffe o tavoli specificati dal costruttore o venduti insieme all'apparecchio stesso. Se usate un carrello, fate attenzione durante gli spostamenti per evitare infortuni causati da un eventuale ribaltamento del carrello stesso.
13. SCOLLEGATE l'apparecchio dalla presa di corrente in caso di temporali o di non utilizzo per un lungo periodo.
14. RIVOLGETEVI a personale di assistenza qualificato per qualsiasi intervento. È necessario intervenire sull'apparecchio ogniqualvolta sia stato danneggiato, in qualsiasi modo, ad esempio in caso di danneggiamento di spina o cavo di alimentazione, versamento di liquido sull'apparecchio o caduta di oggetti su di esso, esposizione dell'apparecchio a pioggia o umidità, funzionamento irregolare o caduta.
15. NON esponetelo a sgocciolamenti o spruzzi. NON appoggiate sull'apparecchio oggetti pieni di liquidi, ad esempio vasi da fiori.
16. La spina di alimentazione o un attacco per elettrodomestici devono essere sempre pronti per l'uso.
17. Il rumore aereo dell'apparecchio non supera i 70dB (A).
18. L'apparato con costruzione di CLASSE I va collegato ad una presa elettrica dotata di messa a terra di protezione.
19. Per ridurre il rischio di incendio o folgorazione, non esponete questo apparecchio alla pioggia o all'umidità.
20. Non tentate di modificare il prodotto. Tale operazione può causare infortuni e/o il guasto del prodotto stesso.

Questo simbolo indica la presenza di alta tensione all'interno dell'apparecchio, che comporta il rischio di folgorazione.

Questo simbolo indica la presenza di istruzioni importanti per l'uso e la manutenzione nella documentazione in dotazione all'apparecchio.

AVVERTENZA: le tensioni all'interno di questo apparecchio possono essere letali. L'apparecchio non contiene parti che possono essere riparate dall'utente. Per qualsiasi intervento, rivolgetevi a personale di assistenza qualificato. Le certificazioni di sicurezza non sono valide se si cambia la tensione di funzionamento rispetto al valore prefissato in fabbrica.

The Shure Model UA845 is an amplified, UHF Antenna Distribution System that expands a wireless microphone system by splitting one pair of antennas to multiple Shure UR4 or Shure UC4 wireless receivers. It also amplifies RF signals to compensate for insertion loss due to splitting signal power to mulitple output connectors. Each UA845 allows up to four receivers to use the same antennas. CASCADE connectors allows connections to a fifth receiver or a second UA845. There are also power connectors for powering Shure UHF and UC Wireless systems.Each system contains the following items:

- UA845 Antenna Distribution System
- Rack-mounting hardware
- Surface-mounting hardware
- Front-mounting antenna hardware
- 18-in. Power OUTPUT Cord
- Power Cord
- Antenna cables for receiver connections
- DC power cables for receiver connections to DC power connectors on UC receivers.

The Shure Model UA845 ensures maximum sensitivity and signal processing capability, providing the widest radio range possible for the largest number of wireless receivers. To get the most from this system, follow these guidelines:

- When using long runs of cable for remote-mounted antennas, use the UA830 In-Line RF Amplifier and the Shure Model UA825 or UA850 Remote Antenna Extension cables (RG-8/X or equivalent), which have low loss at UHF operating frequencies
- Locate multiple transmitters more than 3 m [10 ft] from receiving antennas

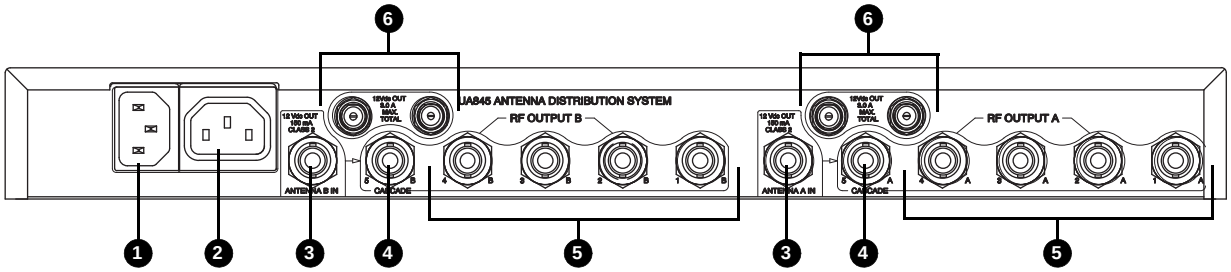
SYSTEM FEATURES

- **Expandability.** The UA845 UHF Antenna Distribution System is designed for large UHF wireless systems. Each unit allows up to four wireless receivers to use the same two antennas, and the CASCADE ports allow connection to a fifth receiver or a second UA845.
- **Compatibility.** The UA845 is compatible with all Shure wireless microphone receivers operating within a compatible frequency range (see *UHF Carrier Frequency Ranges* in the Specifications section).
- **CASCADE Ports.** Two 50 W, BNC-type antenna CASCADE ports allow an additonal UA845 unit or a fifth wireless receiver. A large wireless system can be run off of a single pair of antennas.
- **Power OUTPUT and OUT Connectors.** Up to five (5) UR4 receivers can be daisy-chained and powered from a single source via the Power OUTPUT connectors. Up to four (4) UC4 receivers can be powered from the UA845 using the 12 Vdc OUT connectors.
- **Low Noise and Intermodulation Distortion.** The UA845 maintains clean signals with minimal distortion.
- **Insertion Loss Compensation.** Whenever a signal is split to multiple output ports, there is a loss in signal strength. The UA845 amplifies signals to compensate, ensuring a strong signal to the receivers.
- **Front-Mounted Antennas.** The UA845 comes with hardware to front-mount the antennas, if desired.

FRONT PANEL

FRONT PANEL
FIGURE 1

BACK PANEL



BACK PANEL
FIGURE 2

1. **AC Power INPUT Connector.**

2. **AC Power OUTPUT Connector.** Each UA845 has a Power OUTPUT connector for daisy-chaining up to five (5) Shure Model UR4 UHF Diversity Single or Dual Receivers to a single power source.

   NOTE: This connector does not work for Shure UC4 Receivers.

3. **ANTENNA IN Ports, Channel A & B.** BNC-type connectors for antennas.

4. **RF CASCADE Connectors (Output connector 5), Channel A & B.** BNC-type connectors for adding a fifth receiver, or additional UA845's, permitting more wireless receivers to be connected.

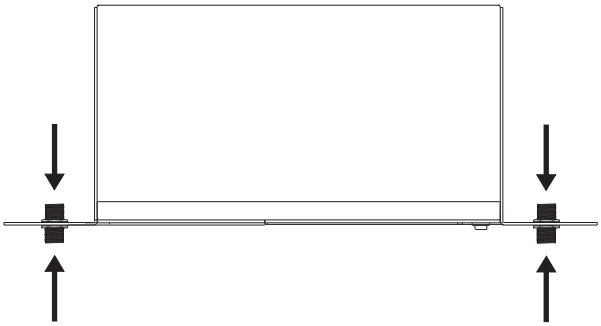
5. **RF OUTPUT Connectors, Channel A & B.** BNC-type connectors for up to four wireless receivers.

6. **12 Vdc OUT Connectors.** These power connectors are designed to power up to four (4) Shure UC4 Wireless systems.

INSTALLING FRONT-MOUNTED ANTENNAS

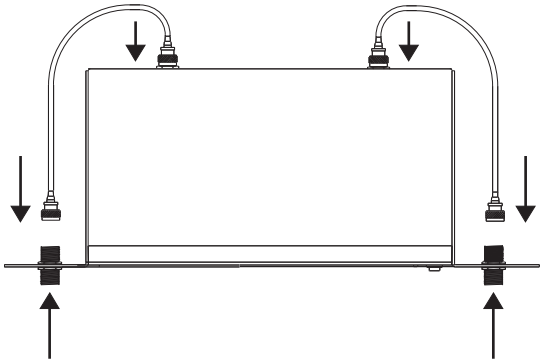
The UA845 comes equipped for front-mounted antennas. Front-mounting improves RF performance of the system by moving the antennas to the front of the rack. When a unit is located in a rack, antennas should be either front- or remote-mounted.

1. Insert the bulkhead adapters through the holes in each bracket, and secure them from each side, using the supplied hardware.



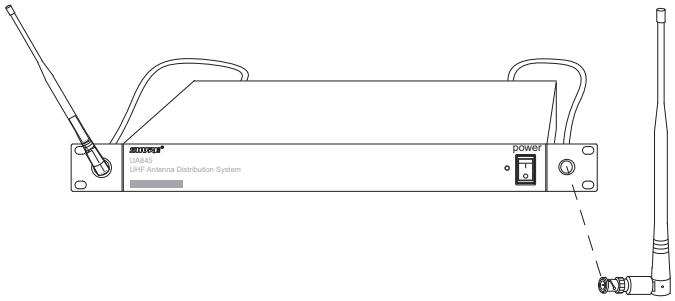
INSERTING BULKHEAD ADAPTERS
FIGURE 3

2. Connect the supplied antenna cables to the receiver antenna inputs and adapters.



CONNECT ANTENNA CABLES
FIGURE 4

3. Install the antennas onto the bulkhead adapters protruding through the front panel. See 5.



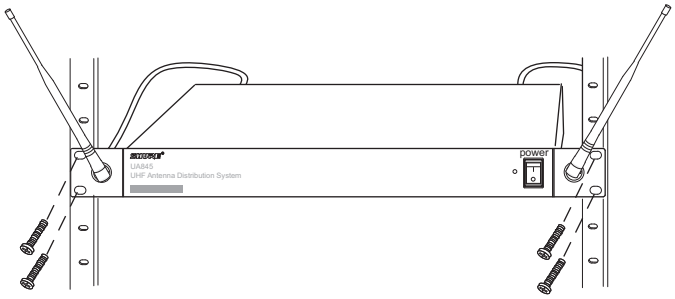
ATTACH ANTENNAS TO THE ADAPTERS
FIGURE 5

NOTE: For the best results, point the antennas up and away from each other at 45× angles from vertical. This ensures the best possible reception and greatly reduces the possibility of signal dropout. Always perform a walk-through test of the system in the performing area before using a wireless system.

MOUNTING THE UA845 IN AN EQUIPMENT RACK

NOTE: If front mounting the antennas, connect them before mounting the UA845 in the rack. Once in the rack, it is more difficult to insert the bulkhead adapters and connect the antenna cables.

1. Insert the unit into a 19-inch equipment rack.
2. Using the screws supplied, secure the unit to the rack.

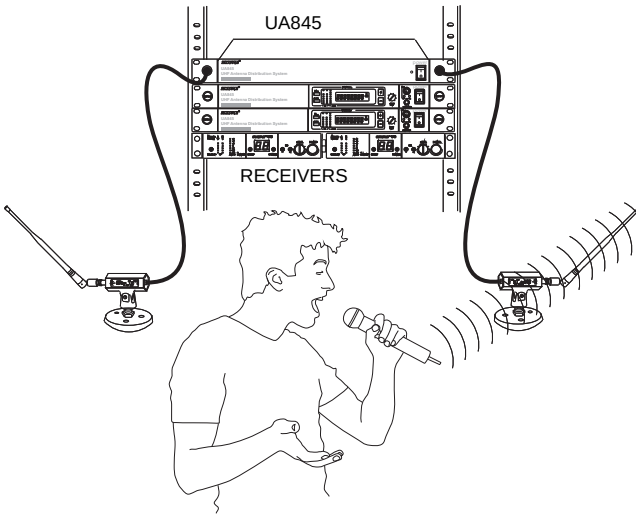


RACK MOUNTING
FIGURE 6

3. If the antennas are remote mounted from the back of the rack, insert the supplied plastic plugs into the holes on the front of the brackets.

INSTALLING REMOTE ANTENNAS

Remote-mounted antennas have the advantage of being free from the unit and closer to the transmitters. They can be placed anywhere within the recommended cable length, creating a much wider radio reception range and further reducing the possibility of signal dropout. When remote-mounted antennas are desirable, please ask your Shure dealer for information on the UA830 In-Line RF Amplifier. Cables are available in UA825 (7.5 m [25 ft]) and UA850 (15 m [50 ft]) versions.



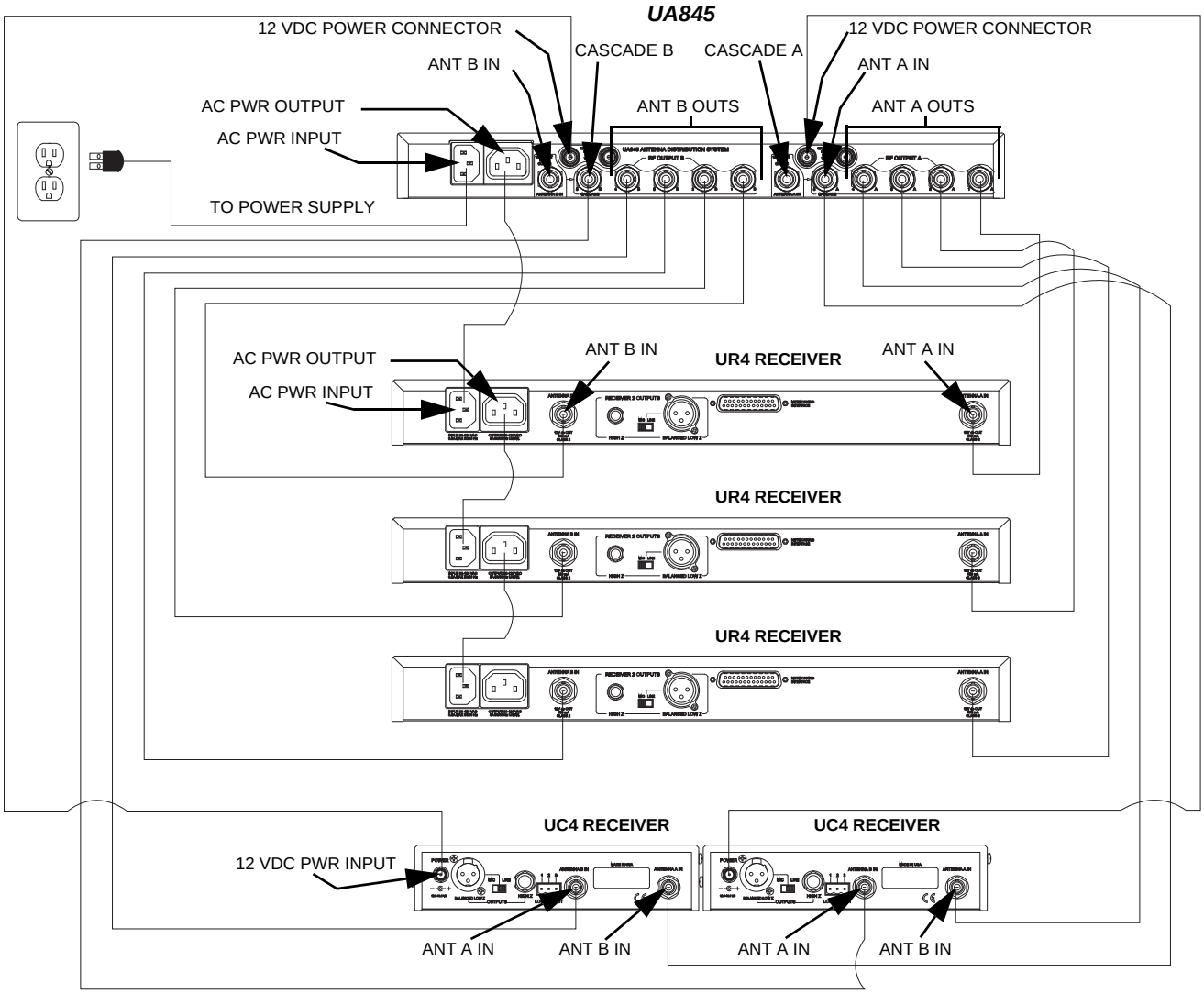
REMOTE-MOUNTED ANTENNAS
FIGURE 7

SINGLE UA845 SETUP

1. Using low-loss, 50 W coaxial cables (RG-58 or equivalent), connect the right and left (Channels 1 through 4, A and B) RF OUTPUT ports on the UA845 to the corresponding left and right antenna inputs on each receiver. Use the CASCADE ports to connect a fifth receiver.
2. Using the supplied power cable, connect the UA845 to a power outlet.
3. To daisy-chain UR4 Receivers together with Power OUTPUT cables, connect the Power OUTPUT connector of the UA845 to the Power INPUT connector of one receiver. Connect the remaining receivers similarly. Connect the POWER INPUT of the unit to a power supply.

NOTE: No more than five (5) Shure UHF receivers should be powered through a daisy-chain from a single UA845.

4. To power Shure UC4 receivers, connect the power input ports of the UC4 receivers to the 12 Vdc OUT of the UA845. Up to four UC4 Receivers can be powered.



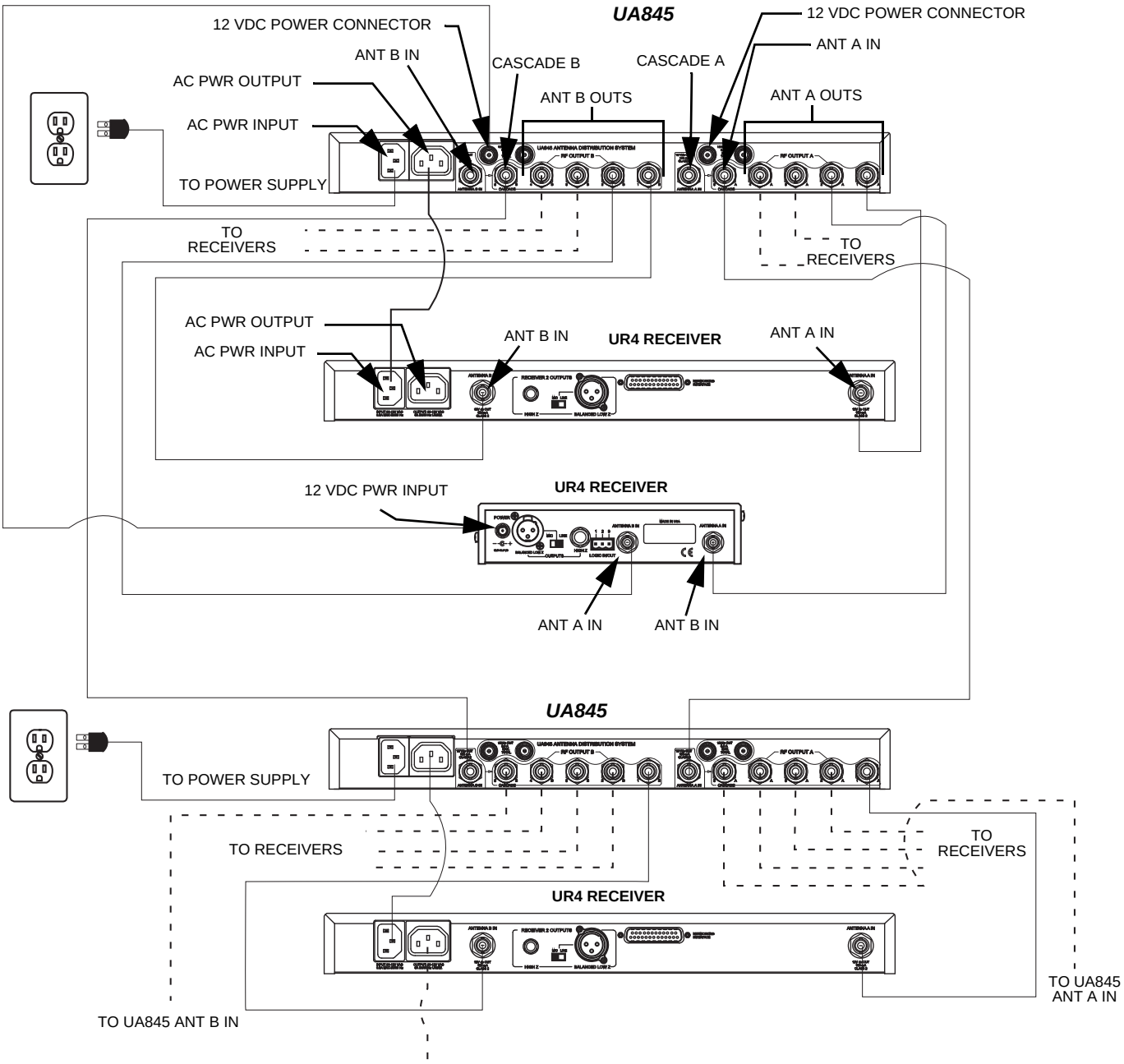
SINGLE UA845 SETUP
FIGURE 8

MULTIPLE UA845 SETUP

1. Connect the CASCADE ports (connector 5) for RF OUTPUT Channels A and B of one UA845 to the ANTENNA INPUT, channels A and B, of a UR4 receiver, a UC4 receiver, or a second UA845.
2. If desired, connect additional units in the same manner.
3. To daisy-chain UR4 Receivers together with Power OUTPUT cables, connect the Power OUTPUT connector of the UA845 to the Power INPUT connector of one receiver. Connect the remaining receivers similarly. Connect the POWER INPUT of the unit to an AC power supply.

WARNING: When adding additional UA845's to a system, each UA845 should be connected to a separate power supply. ***No more than five (5) receivers can be powered from a single UA845.*** Daisy-chaining multiple UA845's through the Power OUTPUT ports will overload a single power supply, possibly causing damage to the equipment.

4. To power Shure UC4 receivers, connect the power input ports of the UC4 receivers to the 12 Vdc OUT of the UA845. Up to four UC4 Receivers can be powered.



MULTIPLE UA845 SETUP
FIGURE 9

SPECIFICATIONS

UHF Carrier Frequency Range

UA845-UA ..... 782–806 MHz
UA845-UB ..... 692–716 MHz
UA845-MA ..... 782–810 MHz
UA845-MB ..... 800–830 MHz
UA845-KK ..... 838–862 MHz
UA845-MC ..... 774–782 MHz
UA845 US ..... 500–900 MHz
UA845 UK ..... 500–900 MHz
UA845 E ..... 500–900 MHz
UA845-SWB ..... 470-952 MHz

Distributed Output Level (Gain)

Models UA845-UA, UB, MA, MB, KK, MC: .....
3.5 dB typical, 2.0 dB to 5.0 dB from antenna input (Output ports 1–4).
0.5 dB typical, –1.0 dB to 2.0 dB from antenna input (Cascade port)

Models UA845 US, UK and E: .....
3 dB typical, 0 dB to 3.5 dB from antenna input (Output ports 1–4)
1 dB typical, –1.6 dB to +1.8 dB from antenna input (Cascade port)

Output Connector Isolation

..... Greater than 25 dB

Third Order Intercept Point (3 OIP)

..... Typical 24 dBm

Input/Output AC Line Voltage

..... 100 to 240 Vac, 50/60 Hz, unswitched

DC Output Voltage

..... 12 Vdc, 4 connectors

Maximun Current Supply from DC Outputs

..... 1.1 Amps

Impedance

..... 50 W

Operating Temperature Range

.....–7× C (+20× F) to 49× C (+120× F)

Overall Dimensions

44.5 mm high x 482.6 mm wide x 295.3 mm deep (1 3/4 x 19 5/8 x 11inches)

Net Weight

.....3.32 Kg (7 lbs, 5 oz)

Input/Output Antenna Connector Type

..... BNC-type

AC Power Consumption

.....15 W per unit typical. When used with 4 UC4's, 55 W max.

Certification

UA845: LISTED by UL and CUL (U.S. and Canada), IC and FCC; IC Certified (Canada). Meets applicable European directives for CE marking eligibility. VDE GS-Certified. Meets Requirements of EMC Standard and 301 489 Parts 1 and 9. Meets the essential requirements of the European R&TTE Directive 99/5/EC and are eligible to carry the CE marking.

FURNISHED ACCESSORIES

2 ft. Coaxial Antenna Cable (RG-58) (12) UA802

OPTIONAL ACCESSORIES

1/2-Wave Antenna

UA820A ..... 774–865 MHz
UA820B ..... 690–746 MHz
UA820C ..... 662–698 MHz
UA820D ..... 554–590 MHz
UA820E ..... 746–784 MHz
UA820G ..... 470-530 MHz
UA820X ..... 944-952 MHz
25 ft. Coaxial Cable (RG-8/X) UA825
50 ft. Coaxial Cable (RG-8/X) UA850
30.4 m (100 ft.) Antenna Extension Cable.....UA8100

In-Line RF Amplifier

UA830A ..... 782–810 MHz
UA830UB ..... 692–716 MHz
UA830C ..... 800–830 MHz
UA830D ..... 774–782 MHz
UA830KK ..... 838–862 MHz
UA830WB ..... 470–900 MHz
UA830USTV ..... 470-698 MHz
UA830X ..... 944-952 MHz

Active Directional Antenna

UA870A ..... 782–810 MHz
UA870MB ..... 800–830 MHz
UA870MC ..... 774–782 MHz
UA870KK ..... 838–862 MHz
UA870UB ..... 692–716 MHz
UA870WB ..... 470–900 MHz
UA870USTV ..... 470-698 MHz
UA870X ..... 944-952 MHz

REPLACEMENT PARTS

Hardware Kit 90VL1371
Bulkhead Adapters 95A8647
120 VAC Power Line Cord 95A8389
230 VAC Power Line Cord 95A8247
240 VAC Power Line Cord (U.K.) 95A8713
120 VAC, 16-in. Power-Through Cord 95A8576
230 VAC, 18-in. Power-Through Cord 95A8678
12 Vdc Power Cables 95A8420

THIS RADIO EQUIPMENT IS INTENDED FOR USE IN MUSICAL PROFESSIONAL ENTERTAINMENT AND SIMILAR APPLICATIONS.

NOTE: THIS RADIO APPARATUS MAY BE CAPABLE OF OPERATING ON SOME FREQUENCIES NOT AUTHORIZED IN YOUR REGION. PLEASE CONTACT YOUR NATIONAL AUTHORITY TO OBTAIN INFORMATION ON AUTHORIZED FREQUENCIES FOR WIRELESS MICROPHONE PRODUCTS IN YOUR REGION

LICENSING AND WARRANTY INFORMATION

Warranty. Shure Incorporated ("Shure") hereby warrants that these products will be free from defects in material and workmanship for a period of two years from the date of purchase. At its option, Shure will repair or replace the defective product and promptly return it to you, or refund the purchase price. Retain proof of purchase to validate the purchase date and return it with any warranty claim. If you believe this product is defective within the warranty period, carefully repack the unit, insure it, and return it postpaid to:

Shure Incorporated
Attention: Service Department
5800 W. Touhy Avenue
Niles, IL 60714-4608 U.S.A.

For service outside the United States, return the product to your authorized Shure Distribution Center.

All claims of defects or shortage should be directed to the above address. Please furnish model number, operating frequency, and date, place and proof of purchase (such as a copy of your sales receipt) to establish warranty. Your letter should include all pertinent details including applicable model or part numbers and a brief description of the problem. Do not mail any units or parts to Shure unless requested to do so by Shure's Service Department. Any returned items must have prior authorization. Unauthorized returns are delayed in handling; these delays can be avoided by contacting Shure in advance and furnishing the necessary information.

Shure reserves the right to make design changes and product improvements on any previously manufactured products. Shure also reserves the right to ship new and/or improved products which are similar to the form, fit and function of the originally ordered products.

Licensing. Changes or modifications not expressly approved by Shure Incorporated could void your authority to operate the equipment. Licensing of Shure wireless microphone equipment is the user's responsibility, and licensability depends on the user's classification and application, and on the selected frequency. Shure strongly urges the user to contact the appropriate telecommunications authority concerning proper licensing, and before choosing and ordering frequencies other than standard frequencies.

EU DECLARATION OF CONFORMITY

We, Shure Incorporated
of 5800 Touhy Avenue
Niles, Illinois, 60714-4608 U.S.A.
Phone: (847) 600-2000
Web: www.Shure.com

Declare under our sole responsibility that the following product

Model: UA845 Description: Antenna Distribution Amplifier

conforms to the essential requirements of
European Low Voltage Directive 2006/95/EC
European EMC Directive 89/336/EEC

The product complies with the following product family, harmonized or national standards:
EN 301 489-1 V1.4.1 (2002-08)
EN 301 489-9 V1.2.1 (2002-08)
VDE GS Certified
EN61000-3-2:2000 Amendment A1:1998; A2:1998; A14:2000
EN 61000-3-3 Amendment A1:2001

The technical documentation is kept at:
Shure Incorporated, Corporate Quality Engineering Division
SHURE Europe GmbH, EMEA Approval

Manufacturer: Shure Incorporated

Signed: _____ Date: 25 September 2007
Name and Title: Craig Kozokar, EMC Project Engineer, Corporate Quality Engineering Division

European Representative: SHURE Europe GmbH

Signed: _____ Date: 25 September 2007
Name and Title: Wolfgang Bilz, Dipl. Ing. (FH), EMEA Approval
SHURE Europe GmbH
Headquarters Europe, Middle East & Africa
Wannenäcker Str. 28
D-74078 Heilbronn, Germany
Phone: +49 - (0)7131 - 7214 - 0
Fax: +49 - (0)7131 - 7214 - 14

SHURE®

United States:
Shure Incorporated
5800 West Touhy Avenue
Niles, IL 60714-4608 USA

Phone: 847-600-2000
Fax: 847-600-1212
Email: info@shure.com

Europe, Middle East, Africa:
Shure Europe GmbH
Wannenäckestr. 28,
74078 Heilbronn, Germany

Phone: 49-7131-72140
Fax: 49-7131-721414
Email: info@shure.de

Asia, Pacific:
Shure Asia Limited
Unit 301, 3rd Floor
Citicorp Centre
18, Whitfield Road
Causeway Bay, Hong Kong

Phone: 852-2893-4290
Fax: 852-2893-4055
Email: info@shure.com.hk

Canada, Latin America, Caribbean:
Shure Incorporated
5800 West Touhy Avenue
Niles, IL 60714-4608 USA

Phone: 847-600-2000
Fax: 847-600-6446
Email: international@shure.com

www.shure.com

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